

Claims

1. A data receiving device comprising:
receiving means arranged to receive data from a broadcast network;
5 processing means for processing the received data; and
output means for outputting processed data;
the data receiving device being arranged to operate in a first resource saving mode
in which the receiving means remains active but received data is not processed by
the processing means and not outputted by the output means.
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2. A data receiving device according to claim 1, wherein, in said first resource
saving mode, the received data is discarded.
3. A data receiving device according to claim 1, wherein, in said first resource
15 saving mode, the received data is stored.
4. A data receiving device according to claim 3, wherein, in the first resource
saving mode, data received following the expiry of a predetermined time limit is
discarded.
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5. A data receiving device according to any one of the preceding claims,
configured to, after operating in said first resource saving mode for a first
predetermined time period, operate in a second resource saving mode in which the
receiving means is deactivated and the processing means and output means remain
25 operational.
6. A data receiving device according to claim 5, wherein the receiving means
comprises filtering means for extracting selected data from the received data for
processing and configured so that, after operating in said second resource saving
30 mode for a second predetermined time period, the filtering means is removed.
7. A data receiving device according to claim 5 or 6, wherein the processing
means is configured to create an IP session for handling the output data and, after

operating in said second resource saving mode for a third predetermined time period, to close said IP session.

8. A data receiving device according to claim 5, 6 or 7, configured to, after
5 operating in said second resource saving mode for a fourth predetermined time period, deactivate an application for outputting the processed data via the output means.

9. A data receiving device according to any one of the preceding claims,
10 configured to operate in said first resource saving mode following an interruption.

10. A data receiving device according to claim 9, wherein the interruption is an activation of an application unrelated to reception of data from the broadcast network.

15 11. A data receiving device according to claim 10, configured to switch to said first resource saving mode in response to a determination that insufficient resources are available for handling reception of data and the unrelated application.

20 12. A data receiving device according to any one of the preceding claims, further comprising a telephone transceiver arranged to transmit and receive data via a telecommunications network.

25 13. A data receiving device according to any one of the preceding claims, comprising a media guide application for selectively accessing services provided over broadcast network.

30 14. A data receiving device according to claim 13, wherein the media guide application is configured to display and update a list of available services on a user interface of the receiving device.

15. A data receiving device according to any one of the preceding claims, wherein the output means comprises at least one of:

a display for outputting visually displayable data; and
audio output means.

16. A communication system comprising:
5 a broadcast network; and
one or more receiving devices according to any one of claims 1 to 15.
17. A communication system according to claim 16, comprising:
a bi-directional telecommunications network;
10 wherein at least one of the one or more receiving devices comprises a telephone
transceiver arranged to transmit and receive data via said telecommunications
network.
18. A method of receiving data comprising:
15 receiving data from a broadcast network;
processing the received data;
outputting the processed data; and
in response to an interruption, proceeding in a first resource saving mode by
continuing to receive data from the broadcast network but not processing and not
20 outputting said received data.
19. A method according to claim 18, wherein, when in said first resource saving
mode, received data is discarded.
20. A method according to claim 18, wherein, when in said first resource saving
25 mode, received data is stored.
21. A method according to claim 20, comprising, in the first resource saving
mode, discarding data received following the expiry of a predetermined time limit.
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22. A method according to claim 19, 20 or 21, comprising, after operating in said
first resource saving mode for a first predetermined time period, proceeding in a

second resource saving mode in which no data is received from the broadcast network.

23. A method according to any one of claims 19 to 22, wherein the step of
5 receiving data from the broadcast network comprises filtering the received data in order to discard unwanted data.

24. A method according to claim 23 when appended to claim 22, wherein, after
operating in said second resource saving mode for a second predetermined time
10 period, removing a filter arranged to perform said filtering step.

25. A method according to claim 22, 23 or 24, wherein, after operating in said
second resource saving mode for a third predetermined time period, an IP session
arranged to handle the output data is closed.

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26. A method according to any one of claims 22 to 25, wherein, after operating
in said second resource saving mode for a fourth predetermined time period, an
application for outputting the processed data is deactivated.

20 27. A method according to any one of claims 19 to 26, wherein the interruption is an activation of an application unrelated to reception of data from the broadcast network.

28. A method according to claim 27, which proceeds in said first resource saving
25 mode in response to a determination that insufficient resources are available for handling reception of data and the unrelated application.

29. A method according to any one of claims 19 to 28, comprising displaying a
list of services provided over the broadcast network.

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30. A method according to claim 29, comprising updating said list of services
and displaying an updated list.

31. A method according to any one of claims 19 to 30, wherein the step of outputting comprises at least one of:

displaying visually displayable data; and
outputting audio data.

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32. A computer program comprising instructions that, when run on processing means within a data receiving device, causes said data receiving device to perform a method according to any one of claims 19 to 31.

10 33. A data receiving device comprising:

a receiver arranged to receive data from a broadcast network;
a processor arranged to process the received data; and
output means configured to output processed data;

the data receiving device being arranged to operate in a first resource saving mode
15 in which the receiver remains active but received data is not processed by the processor and not outputted by the output means.

34. A data receiving device according to claim 33, wherein, in said first resource saving mode, the received data is discarded.

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35. A data receiving device according to claim 33, wherein, in said first resource saving mode, the received data is stored.

36. A data receiving device according to claim 35, wherein, in the first resource saving mode, data received following the expiry of a predetermined time limit is
25 discarded.

37. A data receiving device according to claim 33, configured to, after operating in said first resource saving mode for a first predetermined time period, operate in a
30 second resource saving mode in which the receiver is deactivated and the processor and output means remain operational.

38. A data receiving device according to claim 37, wherein the receiver comprises a filter configured to extract selected data from the received data for processing, the receiver being configured to deactivate the filter after operating in said second resource saving mode for a second predetermined time period.

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39. A data receiving device according to claim 37, wherein the processor is configured to create an IP session for handling the output data, and, after operating in said second resource saving mode for a third predetermined time period, to close said IP session.

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40. A data receiving device according to claim 37, configured to, after operating in said second resource saving mode for a fourth predetermined time period, deactivate an application configured to output the processed data via the output means.

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41. A data receiving device according to claim 33, configured to operate in said first resource saving mode following an interruption.

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42. A data receiving device according to claim 41, wherein the interruption is an activation of an application unrelated to reception of data from the broadcast network.

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43. A data receiving device according to claim 42, configured to switch to said first resource saving mode in response to a determination that insufficient resources are available for handling reception of data and the unrelated application.

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44. A data receiving device according to claim 33, further comprising a telephone transceiver arranged to transmit and receive data via a telecommunications network.

45. A data receiving device according to claim 33, comprising a media guide application to selectively access services provided over broadcast network.

46. A data receiving device according to claim 45, wherein the media guide application is configured to display and update a list of available services on a user interface of the receiving device.

5 47. A data receiving device according to claim 33, wherein the output means comprises at least one of:

a display for outputting visually displayable data; and
audio output means.

10 48. A communication system comprising:
a broadcast network; and
one or more receiving devices according to claim 33.

49. A communication system according to claim 48, comprising:
15 a bi-directional telecommunications network;
wherein at least one of the one or more receiving devices comprises a telephone transceiver arranged to transmit and receive data via said telecommunications network.